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 WO 2002100815 A1 20021219 WO 2002-EP5821 20020528  
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W: CN, JP, US

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 PT, SE, TR

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R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
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DE 2001-10127941 A 20010608  
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OTHER SOURCE(S): MARPAT 136:402195

AB (meth)acrylate esters [e.g., 2-(dimethylamino)ethyl acrylate] are prepared in high yield and selectivity by the transesterification of lower-alkyl (meth)acrylate esters (e.g., Bu acrylate) with a higher alc. [e.g., 2-(dimethylamino)ethanol] in the presence of a polymerization inhibitor (e.g., phenothiazine and hydroquinone monomethyl ether) and a transesterification catalyst (e.g., tetra-Bu titanate) or a catalyst mixture, and where one separates the free byproduct lower alkanol (e.g., 1-butanol) and at least partly supplies the production of the lower-alkyl (meth)acrylate by acidification of the process waste water and esterification of the residual (meth)acrylic acid (e.g., acrylic acid) with the byproduct alkanol.

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TITLE: Procedure for manufacture of (meth) acrylic acid esters

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PATENT ASSIGNEE(S): BASF AG, Germany

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DE 10063176	A1	20020620	DE 2000-10063176	20001218
WO 2002050015	A1	20020627	WO 2001-EP14903	20011217
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EP 1345887	A1	20030924	EP 2001-984858	20011217
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, TR				
US 2004030179	A1	20040212	US 2003-433614	20030617

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DE 2000-10063176 A 20001218  
 WO 2001-EP14903 W 20011217

AB (meth)acrylic acid esters (of mol. weight >200) are obtained by esterification of (meth) acrylic acid with alcs. in the presence of  $\geq 1$  acid catalyst,  $\geq 1$  polymerization inhibitor, and an organic solvent, which forms an azeotrope with water, whereby the mixture is heated to the b.p. in an apparatus with a distillation unit, column and condenser,